

Atty. Docket No.: 30287-93

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
Stephan GEHRING et al. ) Art Unit: Unknown  
Serial No.: Unknown )  
Filed: July 18, 2003 ) Examiner: Unknown  
For: AN APPARATUS AND METHOD )  
FOR MANAGING VARIABLE- )  
SIZED DATA SLOTS WITH )  
TIMESTAMP COUNTERS )  
WITHIN A TDMA FRAME )

San Diego, California  
July 18, 2003

MS PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## **INFORMATION DISCLOSURE STATEMENT**

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicant makes the below-listed documents of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this correspondence and anything being referred to as enclosed herein is being deposited with the United States Postal Service via "Express Mail Post Office to Addressee" Label No. EV 292297614 US, with sufficient postage in an envelope addressed to MS PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 18th day of July 2003.

**Signature:**

U.S. Patent Documents

1. U.S. Patent No. 4,201,892 to Schmidt, issued May 6, 1980;
2. U.S. Patent No. 5,748,891 to Robert Alan Fleming et al., issued May 5, 1998;
3. U.S. Patent No. 5,920,278 to G. Leonard Tyler et al., issued July 6, 1999;
4. U.S. Patent No. 6,002,708 to Robert Alan Fleming et al., issued December 14, 1999;
5. U.S. Patent No. 6,026,125 to J. Frederick Lerrick, Jr. et al., issued February 15, 2000;
6. U.S. Patent No. 6,133,875 to Hiroshi Kishimoto, issued October 17, 2000;
7. U.S. Patent No. 6,133,876 to Larry W. Fullerton et al., issued October 17, 2000;
8. U.S. Patent No. 6,300,903 B1 to James L. Richards et al., issued October 9, 2001;
9. U.S. Patent No. 6,351,652 B1 to James S. Finn et al., issued February 26, 2002;
10. U.S. Patent No. 3,668,639 to Henning Friedolf Harmuth, issued June 6, 1972;
11. U.S. Patent No. 3,678,204 to Henning Friedolf Harmuth, issued July 18, 1972;
12. U.S. Patent No. 4,506,267 to Henning Friedolf Harmuth, issued March 19, 1985;
13. U.S. Patent No. 4,641,317 to Larry W. Fullerton, issued February 3, 1987;
14. U.S. Patent No. 4,651,152 to Henning Friedolf Harmuth, issued March 17, 1987;
15. U.S. Patent No. 4,743,906 to Larry W. Fullerton, issued May 10, 1988;
16. U.S. Patent No. 4,813,057 to Larry W. Fullerton, issued March 14, 1989;
17. U.S. Patent No. 4,979,186 to Larry W. Fullerton, issued December 18, 1990;
18. U.S. Patent No. 5,134,408 to Henning Friedolf Harmuth, issued July 2, 1992;

19. U.S. Patent No. 5,148,174 to Henning Friedolf Harmuth, issued September 15, 1992;
20. U.S. Patent No. 5,153,595 to Henning Friedolf Harmuth, issued October 6, 1992;
21. U.S. Patent No. 5,159,343 to Henning Friedolf Harmuth, issued October 27, 1992;
22. U.S. Patent No. 5,307,081 to Henning Friedolf Harmuth, issued April 26, 1994;
23. U.S. Patent No. 5,363,108 to Larry W. Fullerton, issued November 8, 1994;
24. U.S. Patent No. 5,365,240 to Henning Friedolf Harmuth, issued November 15, 1994;
25. U.S. Patent No. 5,493,691 to Barrett, issued February 20, 1996;
26. U.S. Patent No. 5,523,758 to Henning Friedolf Harmuth, issued June 4, 1996;
27. U.S. Patent No. 5,586,145 to Morgan et al., issued Decembe 17, 1996;
28. U.S. Patent No. 5,592,177 to Barrett, issued January 7, 1997;
29. U.S. Patent No. 5,610,907 to Barrett, issued March 11, 1997;
30. U.S. Patent No. 5,677,927 to Larry W. Fullerton et al., issued October 14, 1997;
31. U.S. Patent No. 5,687,169 to Larry W. Fullerton, issued November 11, 1997;
32. U.S. Patent No. 5,901,172 to Fontana et al., issued May 4, 1999;
33. U.S. Patent No. 6,031,862 to Larry W. Fullerton et al., issued February 29, 2000;
34. U.S. Patent No. 4,586,177 to Kaul, issued April 29, 1986;
35. U.S. Patent No. 4,587,494 to Widlar, issued May 6, 1986;
36. U.S. Patent No. 4,887,266 to Neve et al., issued December 12, 1989;
37. U.S. Patent No. 5,146,616 to Tang et al., issued September 8, 1992;

38. U.S. Patent No. 5,253,202 to Bronner et al., issued October 12, 1993;
39. U.S. Patent No. 5,274,271 to McEwan, issued December 28, 1993;
40. U.S. Patent No. 5,307,079 to Ross et al., issued April 26, 1994;
41. U.S. Patent No. 5,319,218 to Kim et al., issued June 7, 1994;
42. U.S. Patent No. 5,355,374 to Hester et al., issued October 11, 1994;
43. U.S. Patent No. 5,473,668 to Nakahara, issued December 5, 1995;
44. U.S. Patent No. 5,537,414 to Takiyasu et al., issued July 16, 1996;
45. U.S. Patent No., 5,546,022 to D'Souza et al., issued August 13, 1996;
46. U.S. Patent No. 5,627,829 to Gleeson et al., issued May 6, 1997;
47. U.S. Patent No. 5,644,576 to Bauchot et al., issued July 1, 1997;
48. U.S. Patent No. 5,687,200 to Berger, issued November 11, 1997;
49. U.S. Patent No. 5,742,592 to Scholefield et al., issued April 21, 1998;
50. U.S. Patent No. 5,790,551 to Chan, issued August 4, 1998;
51. U.S. Patent No. 5,815,537 to Janssen, issued September 29, 1998;
52. U.S. Patent No. 5,832,035 to Fullerton, issued November 3, 1998;
53. U.S. Patent No. 5,909,469 to Frodigh et al., issued June 1, 1999;
54. U.S. Patent No. 5,926,501 to Souissi et al., issued July 20, 1999;
55. U.S. Patent No. 5,940,452 to Rich, issued August 17, 1999;
56. U.S. Patent No. 5,952,956 to Fullerton, issued September 14, 1999;
57. U.S. Patent No. 5,952,344 to Dail et al., issued September 14, 1999;

58. U.S. Patent No. 5,960,000 to Ruszczyk et al., issued September 28, 1999;
59. U.S. Patent No. 5,970,062 to Bauchot, issued October 19, 1999;
60. U.S. Patent No. 5,977,822 to Rybicki et al., issued November 2, 1999;
61. U.S. Patent No. 6,014,374 to Paneth et al., issued January 11, 2000;
62. U.S. Patent No. 6,055,411 to Ishida et al., issued April 25, 2000;
63. U.S. Patent No. 6,091,717 to Honkasalo et al., issued July 18, 2000;
64. U.S. Patent No. 6,094,464 to Ebringer et al., issued July 25, 2000;
65. U.S. Patent No. 6,097,707 to Hodzic et al., issued August 1, 2000;
66. U.S. Patent No. 6,226,277 B1 to Chuah, issued May 1, 2001;
67. U.S. Patent No. 6,243,583 B1 to Tsutsui et al., issued June 5, 2001;
68. U.S. Patent No. 6,246,377 B1 to Aeillo et al., issued June 12, 2001;
69. U.S. Patent No. 6,246,702 B1 to Fellman et al., issued June 12, 2001;
70. U.S. Patent No. 6,278,713 B1 to Campbell et al., issued August 21, 2001;
71. U.S. Patent No. 6,285,662 B1 to Watanabe et al., issued September 4, 2001;
72. U.S. Patent No. 6,285,873 B1 to Quick, Jr., issued September 4, 2001; and
73. U.S. Patent No. 6,347,084 B1 to Hulyalkar et al., issued.

Foreign Patent Documents

74. WO 01/93434 A2 to XtremeSpectrum, Inc., issued December 6, 2001;
75. EP 0 307 962 A2 issued March 22, 1989, and A3 issued May 16, 2000;
76. WO 91/07030 A1, published May 16, 1991;

77. WO 95/23461 A1, published August 31, 1995;
78. WO 97/21294 A2, published June 12, 1997;
79. EP 0 817 399 A2 issued January 7, 1998, and A3 issued July 10, 1998;
80. EP 0 825 794 A2 issued February 25, 1998, and A3 issued January 12, 2000; and
81. WO 98/27670 A1, published June 25, 1998.

Other Documents

82. CLARKE, PETER, "Brit firm demos radio triangulation method to locate cellular 911 callers," EE Times, March 5, 1998, pages 1-4, CMP Media LLC, [www.eetimes.com](http://www.eetimes.com);
83. J. HUSTED et al., "A Time-Division Multiple-Access System For The Defense Satellite Communication System," 1970 Eascon, pp. 229-237, October 1970;
84. L. ROBERTS, "Aloha Packet System With and Without Slots and Capture," Computer Communication Review, Vol. 5, No. 2, pp. 28-41, April 1975;
85. "IEEE Standards for Local Area Networks: Carrier Sense Multiple Access with Collision Detection," ANSI/IEEE Std. 802.3--1985, The Institute of Electronic and Electrical Engineers, pp. 1-143, December 1984;
86. B. SCHNEIER, Applied Cryptography, Chapter 10, Sec. 10.3, 12.2, pp. 216-220, 270-278, John Wiley & Sons, Inc., October 1995;
87. "Information Technology-Open Systems Interconnection-Basic Reference Model: The Basic Mode," ISO/IEC 7498-1:1994(E), pp.1-59, corrected and reprinted June 15, 1996;
88. "Radio Equipment and Systems (RES) ; High Performance Radio Local Area Network (HIPERLAN), Type 1 Functional Specification," European Telecommunication Standards Institute, pp. 1-115, December 1977;
89. M. WIN, "ATM-Based TH-SSMA Network for Multimedia PCS," IEEE Journal on Selected Areas in Communication, Vol. 17, No. 5, pp. 824-836, May 1999; and
90. STEPHAN GEHRING et al., "Medium Access Control Protocol For Centralized Wireless Network Communication Management," 44 pp. Specification, 4 pp. Claims, 1p. Abstract, 11 Drawing Sheets, 09/393,122, filed September 10, 1999, PLNK-005.

\* \* \*

Copies of the above-listed documents are listed on the accompanying Form PTO/SB/08A. Newly cited references are enclosed. Those documents that are not enclosed, however, may be found in parent application U.S. Serial No. 09/480,837, filed January 10, 2000.

It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent that may issue on this application. It is also respectfully requested that a copy of Form PTO/SB/08A, as considered and initialed by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

This Information Disclosure Statement is filed before the mailing of a first Office Action, pursuant to 37 C.F.R. §1.97(b). Therefore, it is believed that no fee is required in connection with this submission. In the event that a fee is required, please charge our Deposit Account No. 50-2298, in the name of Luce, Forward, Hamilton & Scripps LLP.

Respectfully submitted,

7/18/03  
Date

  
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	To be assigned
Sheet	1	of	5	Filing Date	07/18/03
				First Named Inventor	Stephan Gehring et al.
				Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	30287-93

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,201,892	05/06/1980	SCHMIDT	
		US- 5,748,891	05/05/1998	FLEMING et al.	
		US- 5,920,278	07/06/1999	TYLER et al.	
		US- 6,002,708	12/14/1999	FLEMING et al.	
		US- 6,026,125	02/15/2000	LARRICK, JR. et al.	
		US- 6,133,875	10/17/2000	KISHIMOTO	
		US- 6,133,876	10/17/2000	FULLERTON et al.	
		US- 6,300,903 B1	10/09/2001	RICHARDS et al.	
		US- 6,351,652 B1	02/26/2002	FINN et al.	
		US- 3,668,639	06/06/1972	HARMUTH	
		US- 3,678,204	07/18/1972	HARMUTH	
		US- 4,506,267	03/19/1985	HARMUTH	
		US- 4,641,317	02/03/1987	FULLERTON	
		US- 4,651,152	03/17/1987	HARMUTH	
		US- 4,743,906	05/10/1988	FULLERTON	
		US- 4,813,057	03/14/1989	FULLERTON	
		US- 4,979,186	12/18/1990	FULLERTON	
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		US- 5,148,174	09/15/1992	HARMUTH	
		US- 5,153,595	10/06/1992	HARMUTH	

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		WO 01/93434 A2	10/06/2001	ROFHEART et al.	
		EP 0 307 962 A2 & A3	3/22/89; 5/16/00		
		WO 91/07030 A1	05/16/1991		
		WO 95/23461 A1	08/31/1995		
		WO 97/21294 A2	06/12/1997		
		EP 0 817 399 A2 & A3	1/7/98; 7/10/98		
		EP 0 825 794 A2 & A3	2/25/98; 1/12/00		
		WO 98/27670 A1	06/25/1998		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Application Number</b>	To be assigned
		<b>Filing Date</b>	07/18/03
		<b>First Named Inventor</b>	Stephan Gehring et al.
		<b>Art Unit</b>	Unknown
		<b>Examiner Name</b>	Unknown
Sheet	2	of	5
		<b>Attorney Docket Number</b>	
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		Number - Kind Code <sup>a</sup> (if known)	MM-DD-YYYY		
		US- 5,159,343	10/27/1992	HARMUTH	
		US- 5,307,081	04/26/1994	HARMUTH	
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		US- 5,365,240	11/15/1994	HARMUTH	
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		US- 5,901,172	05/04/1999	FONTANA et al.	
		US- 6,031,862	02/29/2000	FULLERTON et al.	
		US- 4,586,177	04/29/1986	KAUL	
		US- 4,587,494	05/06/1986	WIDLAR	
		US- 4,887,266	12/12/1989	NEVE et al.	
		US- 5,146,616	09/08/1992	TANG et al.	
		US- 5,253,202	10/12/1993	BRONNER et al.	
		US- 5,274,271	12/28/1993	McEWAN	
		US- 5,307,079	04/26/1994	ROSS et al.	

## FOREIGN PATENT DOCUMENTS

<b>Examiner Signature</b>		<b>Date Considered</b>	
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		US- 5,319,218	06/07/1994	KIM et al.	
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		US- 5,832,035	11/03/1998	FULLERTON	
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		US- 5,940,452	08/17/1999	RICH	
		US- 5,952,956	09/14/1999	FULLERTON	
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		US- 5,977,822	11/02/1999	RYBICKI et al.	

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		<b>Group Art Unit</b>	Unknown
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<b>Sheet</b>	Sheet No. 5	of	5
		<b>Attorney Docket Number</b>	
		30287-93	

#### **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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